

Algebra 2

Mrs. Britton

Section 8.4: Adding and Subtracting Rational Expressions

Name: _____

Date: _____

Simplify ****SHOW ALL YOUR WORK****

1. $\frac{x-2}{x^2-4} + \frac{2}{3x-6}$

2. $\frac{x-2}{x+3} + \frac{x+3}{x-2}$

3. $\frac{4x}{x^2-16} - \frac{4}{x+4}$

4. $\frac{x+4}{2x^2-2x} - \frac{5}{2x-2}$

5. $\frac{x-2}{x+8} - \frac{x-2}{x^2+6x-16}$

6. $\frac{x+5}{x^2+10x+25} - \frac{2x}{x^2-25}$

$$7. \quad \frac{x}{x-5} - \frac{x^2+25}{x^2-25} + \frac{5}{x+5}$$

$$8. \quad \frac{x+1}{x-2} + \frac{x+2}{x-4} + \frac{16-5x}{x^2-6x+8}$$

$$9. \quad \frac{5x}{x^2-9} - \frac{4}{x+3} + \frac{2}{x-3}$$

$$10. \quad \frac{-2x^2-5x}{x^2+7x} + \frac{x-2}{x+7} + \frac{2x-3}{x}$$